

AMENDMENT
(Amendment under Article 11)

To : Commissioner of the Patent Office, OGAWA Hiroshi
(Examiner of the Patent Office, YAMAUCHI Yasuaki)

1 Identification of the International Application
PCT/JP02/11025

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4 Object of amendment

The description and claims

5 Subject matter of amendment

- (1) Page 7 of the description are amended
as in the attached sheets.
- (2) Claims 1 and 3 are amended as in the
attached sheets.

6 List of Attached Documents

- (1) Page 7 of the description
- (2) Page 9 of the claims

INDUSTRIAL APPLICABILITY (Amended)

In short, according to the present invention, the rear side of the insertion part 6 of the synthetic resin component 3 into which the rod 2 is inserted is widened, the stopper piece 7 that protrudes obliquely rearward of the inner surface of the rear side of the insertion part 6 is provided within the rear side thereof, and the stopper recess 8 on the forward end of the stopper piece 7 is formed on the side surface of the forward end of the rod 2. Therefore, the engagement structure in which the forward end of the stopper piece 7 is engaged with the stopper recess 8 can prevent the synthetic resin component 3 from detaching from the rod 2.

Further, the position regulating part 10, on which the forward end of the rod 2 is abutted during insertion of the rod 2, is provided in the rear part of the insertion part 6. Accordingly, the position regulating part 10 makes a positioning of the forward end of the rod 2. It is, therefore, possible to prevent or extremely minimize the vertical fine movement of the synthetic resin component 3 in the fixed state.

Besides, the pressing member 10a is abutted on the forward end of the rod 2, and the forward end of the stopper piece 7 is abutted on the upper part of the stopper recess 8. It is, therefore, possible to maintain the assembly direction of the synthetic resin component 3 relative to the rod 2.

Hence, the present invention can provide the product excellent in the integration of the rod 2 with the synthetic resin component 3.

The position regulating part 10 is provided as the pressing member 10a that is the compression elastic body formed integrally with the synthetic resin component 3. The pressing member 10a is elastically deformable, so that the forward end of the rod 2 can be inserted further rearward of the abutment position at which the rod 2 is abutted on the pressing member 10a. It is, therefore, possible to engage the forward end of the stopper piece 7 with the stopper recess 8 without greatly deforming the synthetic resin component 3. In addition, a closeness between the pressing member 10a and the forward end of the rod 2 and that between the stopper piece 7 and the abutment region of the stopper recess 8 are further enhanced by the elastic restoring force of the pressing member 10a. It is, therefore, possible to further improve the integration of the synthetic resin component 3 with the rod 2.

The upper region of the synthetic resin component 3 is formed into a frame by opening the rear side of the insertion part 6 on both sides of the upper region thereof. It is, therefore, possible to form the upper region to be easily deformable. This can thereby facilitate a work of attaching the synthetic resin component 3 to the rod 2.

CLAIMS

1. (Amended) A fixing structure of attaching a synthetic resin component to a forward end of a rod by inserting the forward end of the rod into an insertion part of the synthetic resin component, wherein

a rear side of said insertion part is widened, a stopper piece that protrudes obliquely rearward of an inner surface of the rear side of the insertion part is provided within the rear side thereof, a stopper recess on a forward end of the stopper piece is formed on a side surface of the forward end of the rod, and a position regulating part, on which the forward end of the rod is abutted during insertion of the rod, is provided in a rear part of the insertion part.

2. The fixing structure of the rod and the synthetic resin component according to claim 1, wherein

the position regulating part is a pressing member that is a compression elastic body formed integrally with the synthetic resin component.

3. (Amended) The fixing structure of the rod and the synthetic resin component according to claim 1 or 2, wherein

an upper region of the synthetic resin component is formed into a frame by opening the rear side of the insertion part on both sides of the upper region of the synthetic resin component.

4. The fixing structure of the rod and the synthetic resin

component according to claim 1, 2 or 3, wherein

a protrusion is provided on the side surface of the forward end of the rod, and a fitting groove into which the protrusion is fitted is provided in an inner side surface of an inlet-side region of the insertion part of the synthetic resin component.

5. The fixing structure of the rod and the synthetic resin component according to claim 1, 2, 3 or 4, wherein

a flat surface is formed on an opposite side to the stopper recess on the side surface of the forward end of the rod, and a flat surface closely contacting with said flat surface is formed on the insertion part of the synthetic resin component.